

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 09/016,1590
Source: IFW16
Date Processed by STIC: 3/10/05

ENTERED



IFW16

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/016,159D

DATE: 03/10/2005

TIME: 10:17:03

Input Set : D:\completeseq2.txt
 Output Set: N:\CRF4\03102005\I016159D.raw

3 <110> APPLICANT: Lee, Jong Y.
 5 <120> TITLE OF INVENTION: PURIFIED HUMAN ERYTHROPOIETIN RECEPTOR PROTEIN FRAGMENT AND
 6 ANTIBODIES DERIVED THEREFROM
 8 <130> FILE REFERENCE: 106.001US2
 10 <140> CURRENT APPLICATION NUMBER: US 09/016,159D
 11 <141> CURRENT FILING DATE: 1998-01-30
 13 <150> PRIOR APPLICATION NUMBER: US 08/876,227
 14 <151> PRIOR FILING DATE: 1997-06-16
 16 <160> NUMBER OF SEQ ID NOS: 7
 18 <170> SOFTWARE: PatentIn version 3.3
 20 <210> SEQ ID NO: 1
 21 <211> LENGTH: 23
 22 <212> TYPE: DNA
 23 <213> ORGANISM: Artificial
 25 <220> FEATURE:
 26 <223> OTHER INFORMATION: BamH1 linker at 5' end followed by sequence for amino acids

25

27 through 29 of full length EpoR protein. Forward primer for SEQ
 28 ID NO:2.

30 <400> SEQUENCE: 1

31 ttggatccgc gcccccgct aac

23

34 <210> SEQ ID NO: 2

35 <211> LENGTH: 22

36 <212> TYPE: DNA

37 <213> ORGANISM: Artificial

39 <220> FEATURE:

40 <223> OTHER INFORMATION: EcoR1 linker followed by sequence complementary to coding
 41 sequence for amino acids 226 through 222 of full length human
 42 EpoR protein. Reverse primer for SEQ ID NO:1.

44 <400> SEQUENCE: 2

45 tgaattcggg gtccaggtcg ct

22

48 <210> SEQ ID NO: 3

49 <211> LENGTH: 18

50 <212> TYPE: DNA

51 <213> ORGANISM: Homo sapiens

53 <300> PUBLICATION INFORMATION:

54 <301> AUTHORS: Smith, D.B. et al.

55 <302> TITLE: Single-step purification of polypeptides expressed in Escherichia
 56 coli as fusions with glutathione-S-transferase

57 <303> JOURNAL: Gene

58 <304> VOLUME: 67

59 <306> PAGES: 31-40

60 <307> DATE: 1998

62 <300> PUBLICATION INFORMATION:

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63 <301> AUTHORS: Smith, D.B. et al.
64 <302> TITLE: Single-step purification of polypeptides expressed in Escherichia
65     coli as fusions with glutathione-S-transferase
66 <303> JOURNAL: Genes and Development
67 <304> VOLUME: 67
68 <306> PAGES: 31-40
69 <307> DATE: 1998
71 <400> SEQUENCE: 3
72 ctggttccgc gtggatcc                                         18
75 <210> SEQ ID NO: 4
76 <211> LENGTH: 1527
77 <212> TYPE: DNA
78 <213> ORGANISM: Homo sapiens
80 <300> PUBLICATION INFORMATION:
81 <301> AUTHORS: Jones, S.S. et al.
82 <302> TITLE: Human Erythropoietin Receptor: Cloning, expression, and
83     biological characterization
84 <303> JOURNAL: Blood
85 <304> VOLUME: 76
86 <305> ISSUE: 1
87 <306> PAGES: 31-35
88 <307> DATE: 1990-07-01
90 <400> SEQUENCE: 4
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95 ttgctggcgcc cccggggggcc cgaagagctt ctgtgtttca ccgagcggtt ggaggacttg 180
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99 taccagctcg aggatgagcc atggaagctg tgtcgcctgc accaggctcc cacggcttgt 300
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103 gagttgcgcg tcacagcagc ctccggcgctt ccgcgatatac accgtgtcat ccacatcaat 420
105 gaagtagtgc tcctagacgc cccctgtgggg ctggctggcgcc gggtggctga cgagagcgcc 480
107 cacgtagtgt tgctgtggctt cccggccctt gagacacccca tgacgtctca catccgttac 540
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111 ggccgcaccc agtgtgtgtt gagaacccctg cggggccgga cgcgcatacac cttcgccgtc 660
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141 ccccccagctt atgtggcttg ctcttagt 1527
  
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RAW SEQUENCE LISTING
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DATE: 03/10/2005
TIME: 10:17:03

Input Set : D:\completseq2.txt
Output Set: N:\CRF4\03102005\I016159D.raw

144 <210> SEQ ID NO: 5
 145 <211> LENGTH: 508
 146 <212> TYPE: PRT
 147 <213> ORGANISM: Homo sapiens
 149 <300> PUBLICATION INFORMATION:
 150 <301> AUTHORS: Jones, S.S. et al.
 151 <302> TITLE: Human Erythropoietin Receptor: Cloning, expression, and
 152 biological characterization
 153 <303> JOURNAL: Blood
 154 <304> VOLUME: 76
 155 <305> ISSUE: 1
 156 <306> PAGES: 31-35
 157 <307> DATE: 1990-07-01
 159 <400> SEQUENCE: 5
 161 Met Asp His Leu Gly Ala Ser Leu Trp Pro Gln Val Gly Ser Leu Cys
 162 1 5 10 15
 165 Leu Leu Leu Ala Gly Ala Ala Trp Ala Pro Pro Pro Asn Leu Pro Asp
 166 20 25 30
 169 Pro Lys Phe Glu Ser Lys Ala Ala Leu Leu Ala Ala Arg Gly Pro Glu
 170 35 40 45
 173 Glu Leu Leu Cys Phe Thr Glu Arg Leu Glu Asp Leu Val Cys Phe Trp
 174 50 55 60
 177 Glu Glu Ala Ala Ser Ala Gly Val Gly Pro Gly Asn Tyr Ser Phe Ser
 178 65 70 75 80
 181 Tyr Gln Leu Glu Asp Glu Pro Trp Lys Leu Cys Arg Leu His Gln Ala
 182 85 90 95
 185 Pro Thr Ala Arg Gly Ala Val Arg Phe Trp Cys Ser Leu Pro Thr Ala
 186 100 105 110
 189 Asp Thr Ser Ser Phe Val Pro Leu Glu Leu Arg Val Thr Ala Ala Ser
 190 115 120 125
 193 Gly Ala Pro Arg Tyr His Arg Val Ile His Ile Asn Glu Val Val Leu
 194 130 135 140
 197 Leu Asp Ala Pro Val Gly Leu Val Ala Arg Leu Ala Asp Glu Ser Gly
 198 145 150 155 160
 201 His Val Val Leu Arg Trp Leu Pro Pro Pro Glu Thr Pro Met Thr Ser
 202 165 170 175
 205 His Ile Arg Tyr Glu Val Asp Val Ser Ala Gly Asn Gly Ala Gly Ser
 206 180 185 190
 209 Val Gln Arg Val Glu Ile Leu Glu Gly Arg Thr Glu Cys Val Leu Ser
 210 195 200 205
 213 Asn Leu Arg Gly Arg Thr Arg Tyr Thr Phe Ala Val Arg Ala Arg Met
 214 210 215 220
 217 Ala Glu Pro Ser Phe Gly Gly Phe Trp Ser Ala Trp Ser Glu Pro Val
 218 225 230 235 240
 221 Ser Leu Leu Thr Pro Ser Asp Leu Asp Pro Leu Ile Leu Thr Leu Ser
 222 245 250 255
 225 Leu Ile Leu Val Val Ile Leu Val Leu Leu Thr Val Leu Ala Leu Leu
 226 260 265 270
 229 Ser His Arg Arg Ala Leu Lys Gln Lys Ile Trp Pro Gly Ile Pro Ser

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233	Pro Glu Ser Glu Phe Glu Gly Leu Phe Thr Thr His Lys Gly Asn Phe		
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237	Gln Leu Trp Leu Tyr Gln Asn Asp Gly Cys Leu Trp Trp Ser Pro Cys		
238	305	310	315
241	320		
242	Thr Pro Phe Thr Glu Asp Pro Pro Ala Ser Leu Glu Val Leu Ser Glu		
245	325	330	335
246	Arg Cys Trp Gly Thr Met Gln Ala Val Glu Pro Gly Thr Asp Asp Glu		
249	340	345	350
250	Gly Pro Leu Leu Glu Pro Val Gly Ser Glu His Ala Gln Asp Thr Tyr		
253	355	360	365
254	Leu Val Leu Asp Lys Trp Leu Leu Pro Arg Asn Pro Pro Ser Glu Asp		
257	370	375	380
258	Leu Pro Gly Pro Gly Gly Ser Val Asp Ile Val Ala Met Asp Glu Gly		
261	385	390	395
262	400		
265	Ser Glu Ala Ser Ser Cys Ser Ser Ala Leu Ala Ser Lys Pro Ser Pro		
266	405	410	415
269	Glu Gly Ala Ser Ala Ala Ser Phe Glu Tyr Thr Ile Leu Asp Pro Ser		
270	420	425	430
273	Ser Gln Leu Leu Arg Pro Trp Thr Leu Cys Pro Glu Leu Pro Pro Thr		
274	435	440	445
277	450	455	460
278	465	470	475
281	Ser Thr Asp Tyr Ser Ser Gly Asp Ser Gln Gly Ala Gln Gly Gly Leu		
282	480		
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291	<210> SEQ ID NO: 6		
292	<211> LENGTH: 1527		
293	<212> TYPE: DNA		
294	<213> ORGANISM: Homo sapiens		
295	<214> PUBLICATION INFORMATION:		
296	<215> AUTHORS: Winkelman, J.C. et al.		
297	<216> TITLE: The gene for the human erythropoietin receptor: analysis of the		
298	coding sequence and assignment to chromosome 19p		
299	<217> JOURNAL: Blood		
300	<218> VOLUME: 76		
301	<219> ISSUE: 1		
302	<220> PAGES: 24-30		
303	<221> DATE: 1990-07-01		
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309	ttgctggcgg cccggggggcc cgaagagctt ctgtgcttca ccgagcggtt ggaggacttg	180	
311	gtgtgtttct gggaggaagc ggcgagcgct ggggtgggcc cgggcaacta cagttctcc	240	
313	taccagctcg aggatgagcc atggaagctg tgtcgctgc accaggctcc cacggctcgt	300	
315	ggtcgggtgc gcttctggtg ttgcgtgc acagccgaca cgtcgagctt cgtcccccta	360	

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317	gagttgcgcg	tcacagcgc	ctccggcgct	ccgcgatatac	accgtgtcat	ccacatcaat	420										
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321	cacgtagtgt	tgcgctggct	cccgcgcct	gagacaccca	tgacgtctca	catccgctac	540										
323	gagggtggacg	tctcggccgg	caaccggcca	gggagcgtac	agagggtgga	gatccctggag	600										
325	ggccgcaccg	agtgtgtgct	gagcaacctg	cggggccgga	cgcgctacac	cttcggcgtc	660										
327	cgcgcgcgt	tggctgagcc	gagcttcggc	ggcttctgga	gcccctggtc	ggagcctgtg	720										
329	tcgctgtgg	agcctagcga	cctggacccc	ctcatctgta	cgctctccct	catcctcgtg	780										
331	gtcatcctgg	tgctgctgac	cgtgctcgcg	ctgctctccc	accgcggg	tctgaagcag	840										
333	aagatctggc	ctggcatccc	gagcccagag	agcgagttt	aaggccttt	caccacccac	900										
335	aagggttaact	tccagctgtg	gctgtaccag	aatgatggct	gcctgtggg	gagcccctgc	960										
337	acccccttca	cggaggaccc	acctgttcc	ctggaaagtcc	tctcagagcg	ctgtgtgggg	1020										
339	acgatgcagg	cagtggagcc	ggggacagat	gatgagggcc	ccctgctgga	gccagtggc	1080										
341	agtgagcatg	cccaggatac	ctatctggt	ctggacaaat	ggttgcgtcc	ccggaaacccg	1140										
343	cccagtgagg	acctcccagg	gcctgggtggc	agtgtggaca	tagtggccat	ggatgaaggc	1200										
345	tcagaagcat	cctcctgctc	atctgcttt	gcctcgaagc	ccagcccaga	gggagcctct	1260										
347	gctgccagct	ttgagtagcac	tatcctggac	cccagctccc	agctcttgcg	tccatggaca	1320										
349	ctgtgccctg	agctgcccc	taccccaccc	cacctaag	acctgtacct	tgtgttatct	1380										
351	gactctggca	tctcaactga	ctacagctca	ggggactccc	agggagccca	agggggctta	1440										
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360	<212>	TYPE:	PRT														
361	<213>	ORGANISM:	Homo sapiens														
363	<300>	PUBLICATION INFORMATION:															
364	<301>	AUTHORS:	Winkelmann, J.C. et al.														
365	<302>	TITLE:	The Gene for the Human Erythropoietin Receptor: Analysis of the														
366		coding sequence and assignment to chromosome 19p															
367	<303>	JOURNAL:	Blood														
368	<304>	VOLUME:	76														
369	<305>	ISSUE:	1														
370	<306>	PAGES:	24-30														
371	<307>	DATE:	1990-07-01														
373	<400>	SEQUENCE:	7														
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380					20					25				30			
383	Pro	Lys	Phe	Glu	Ser	Lys	Ala	Ala	Leu	Leu	Ala	Ala	Arg	Gly	Pro	Glu	
384					35					40				45			
387	Glu	Leu	Leu	Cys	Phe	Thr	Glu	Arg	Leu	Glu	Asp	Leu	Val	Cys	Phe	Trp	
388					50					55				60			
391	Glu	Glu	Ala	Ala	Ser	Ala	Gly	Val	Gly	Pro	Gly	Asn	Tyr	Ser	Phe	Ser	
392					65					70				75			80
395	Tyr	Gln	Leu	Glu	Asp	Glu	Pro	Trp	Lys	Leu	Cys	Arg	Leu	His	Gln	Ala	
396										85				90			95
399	Pro	Thr	Ala	Arg	Gly	Arg	Val	Arg	Phe	Trp	Cys	Ser	Leu	Pro	Thr	Ala	
400										100				105			110
403	Asp	Thr	Ser	Ser	Phe	Val	Pro	Leu	Glu	Leu	Arg	Val	Thr	Ala	Ala	Ser	

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Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2

VERIFICATION SUMMARY

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